



# J-10 Jet 107"

## USER MANUAL

WINGSPAN:1650mm

LENGTH:2700mm



# Introduction

- Thank you for purchasing our 2.7m(107”) J-10 Jet plane. we strive to achieve a good quality quick build ARF aircraft .

It requires the least amount of assembly of any ARF kit to obtain the maximum performance.

- Both the design and manufacturing have been undertaken to the highest standards, using best quality hardware, covering, wood & glue during factory construction stage.
- By optimal weight and balance along with reliable construction, you will find this plane ideal for flying.

We hope that every effort and service we offer will, in turn, give you confidence using PILOT Models.

- Have a wonderful time flying your aircraft in a suitable safe space!

# Warrant

- All Pilot-RC products are guaranteed against defects for 30 days of receiving your airplane. This warranty is limited to construction or production defects in both material and workmanship , it does not cover any component parts damaged through use or modification .

• The manufacture cannot supervise the assembly, operation or maintenance, and is not responsible for radio malfunctions. Please ensure your radio system is in good condition. **We are not responsible for any accident or damage while using this product.** It is impossible to determine for certain whether crash damage was the result of improper installation of our products, a radio system failure, or pilot error. Model airplane owners use our products at their own risk.

• Pilot-RC will not be liable for any costs, unless agreed and proved beyond doubt the failure was due to faulty materials or fabrication. Any agreed cost will not exceed the cost of the airframe and not include engine, radio equipment or third party claims.

• Should you wish to return a product or receive replacement parts, all shipping cost must be paid by the customer.

# Attention

1. **Do not regard this plane as a toy!**
2. To ensure safety, please read the instruction manual thoroughly before assembly.
3. Building and operating an RC Plane of this nature requires previous experience and competence to an experienced level. This plane is not for a beginner!
4. If you are in doubt have an experienced pilot at hand. Diligent practicing and correct guidance is essential, accidents can cause bodily harm and property damage.
5. Seek assistance from an experienced person or airplane model clubs in assembly, operation and maintenance to ensure successful training.
6. **Fly only in a registered RC model club airfield** that is approved by your local Academy of Model Aeronautics (AMA).

• Pilot-RC has the right to revise the plane, the instructions and the limited warranty without notice.

If you have any problems and questions please contact Pilot –RC :

Email: pilot-rc@139.com , info@pilot-rc.com

Phone:+86 760 88781293

FAX: +86 760 88780293

Address: No.34, Chengnan Er Road , Zhongshan city, 528400, Guangdong Province, China

## Install kit contents

### Install kit contents:

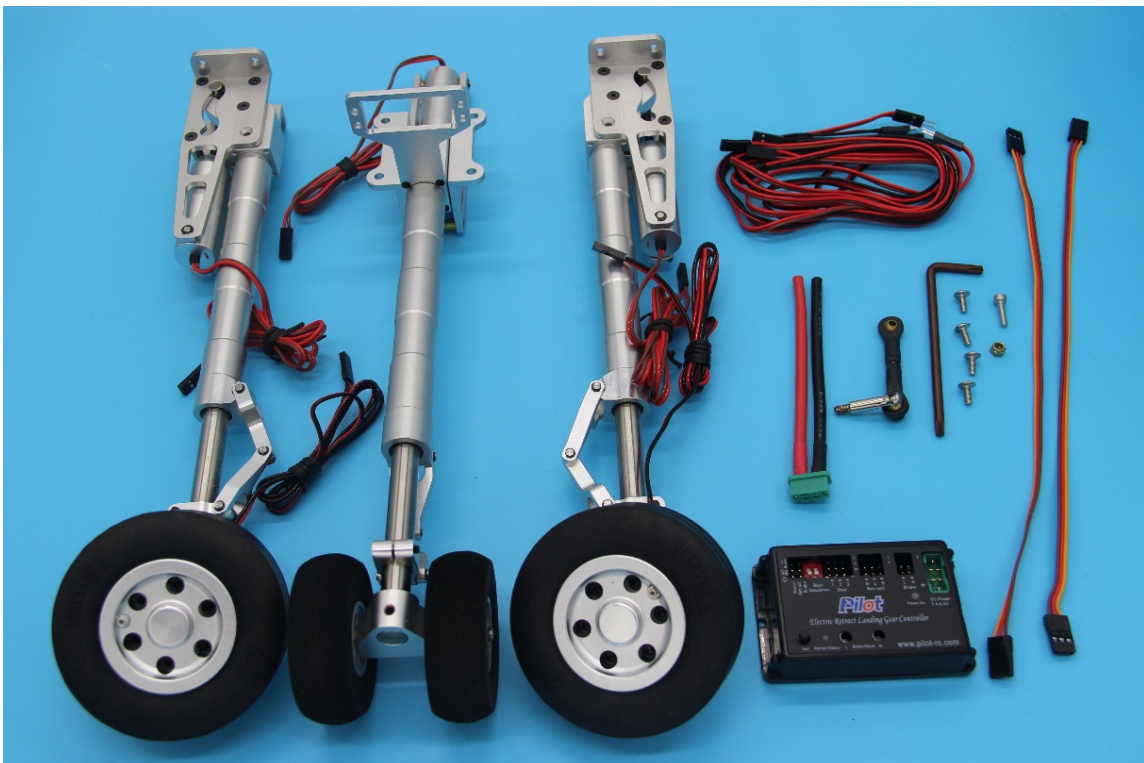
(Some contents like fuel tank etc... has already installed in fuselage)

**Carbon tube:** The outer diameter is 35mm, the wall thickness is 1.5mm, and the length is 710 mm.



### Landing gear module(**optional**):

Landing gear  
Pilot landing gear controller





# Install kit contents

## Accessories pack:



## Accessories pack includes:

Hexagon screws in metric system(SHCS)

Tapping screws

Metric Allen Wrench

Push rot wrench

V teeth steel wire

Push rot

Wring clamp

Gasket

Battery bandage

Oil nipple suit

Extension cord

Crowbar

**(Some of accessories like screw/cord etc... isn't in this accessories pack)**



## Install kit contents

### Servo module(**optional**):

Servo:

PW20AH 4  
PY65AH 1  
PY12AH 1

Servo arm:

Pilot Futaba aluminum alloy 0.8" 2  
Pilot Futaba aluminum alloy 1.2" 3  
Pilot Futaba aluminum alloy 1.6" 2



## Other Accessories Need To Complete:

Epoxy Adhesives

Cyanocrylate adhesives

X-Acto and Saw knives

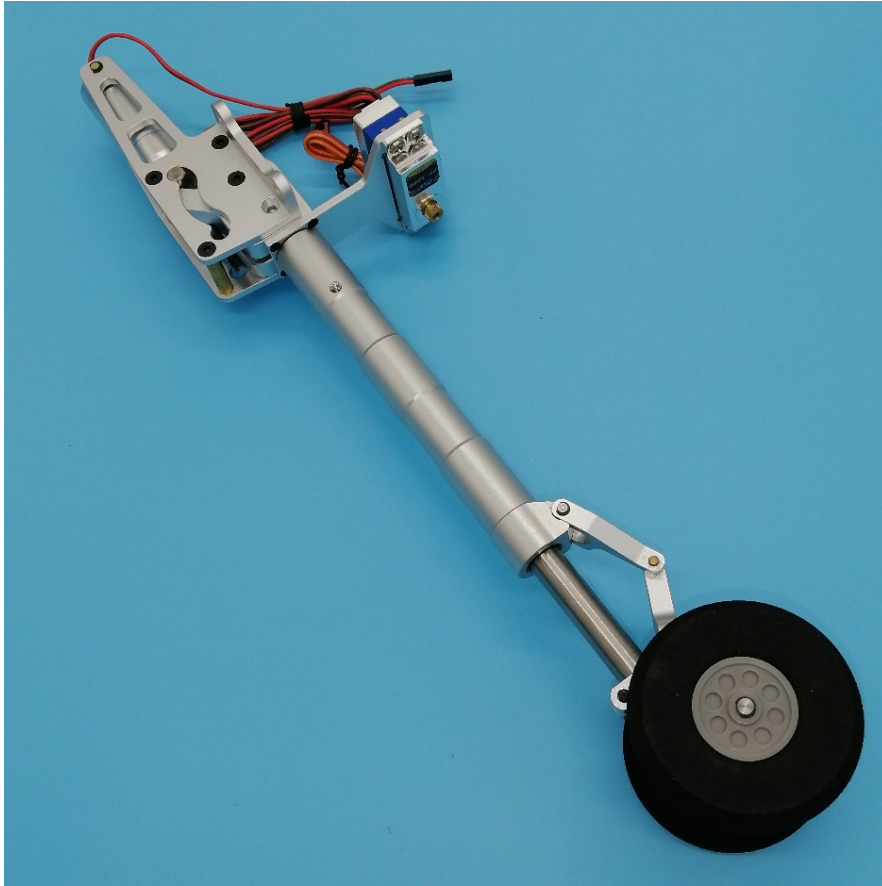
Sandpaper

Thread lock

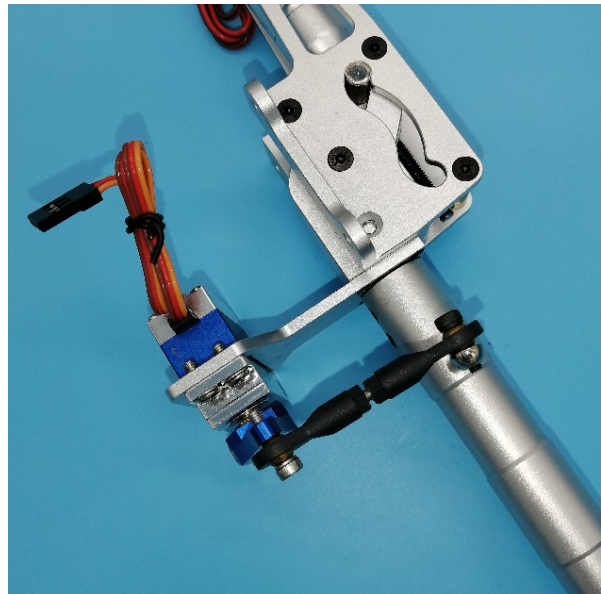
Aircraft stand or support

## Front landing gear assembly

1: Install the servo to the nose landing gear.



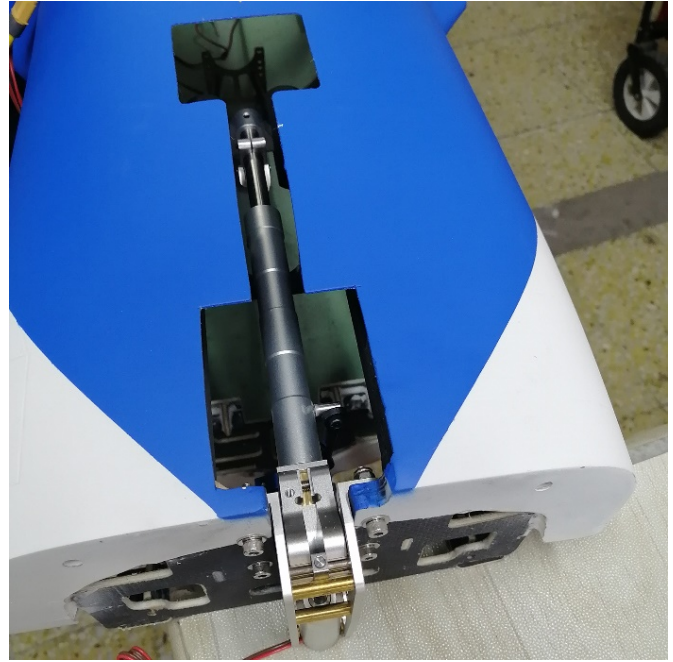
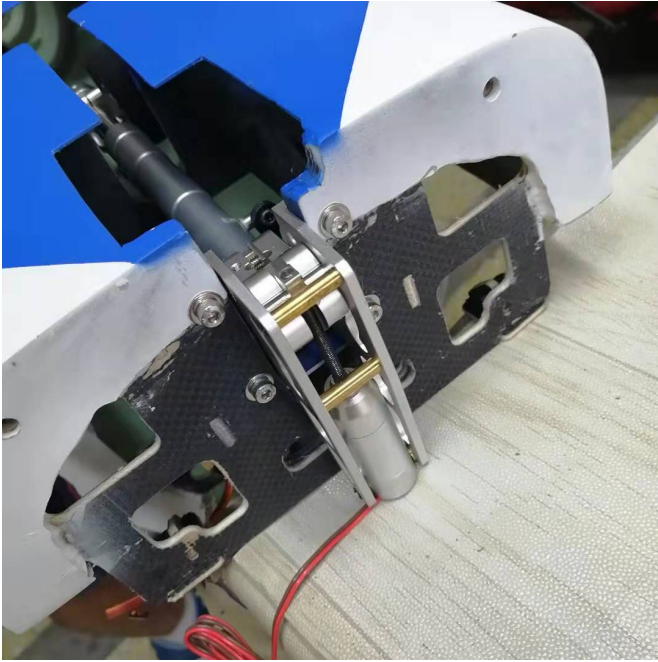
2: Install the servo arm and the push rod. Adjust it to make sure the plane can go straight approx. You still can adjust by radio after install it.





## Front landing gear assembly

3: Place the nose gear to the mounting and adjust it to the correct position, then mark the 4 mounting screws hole.



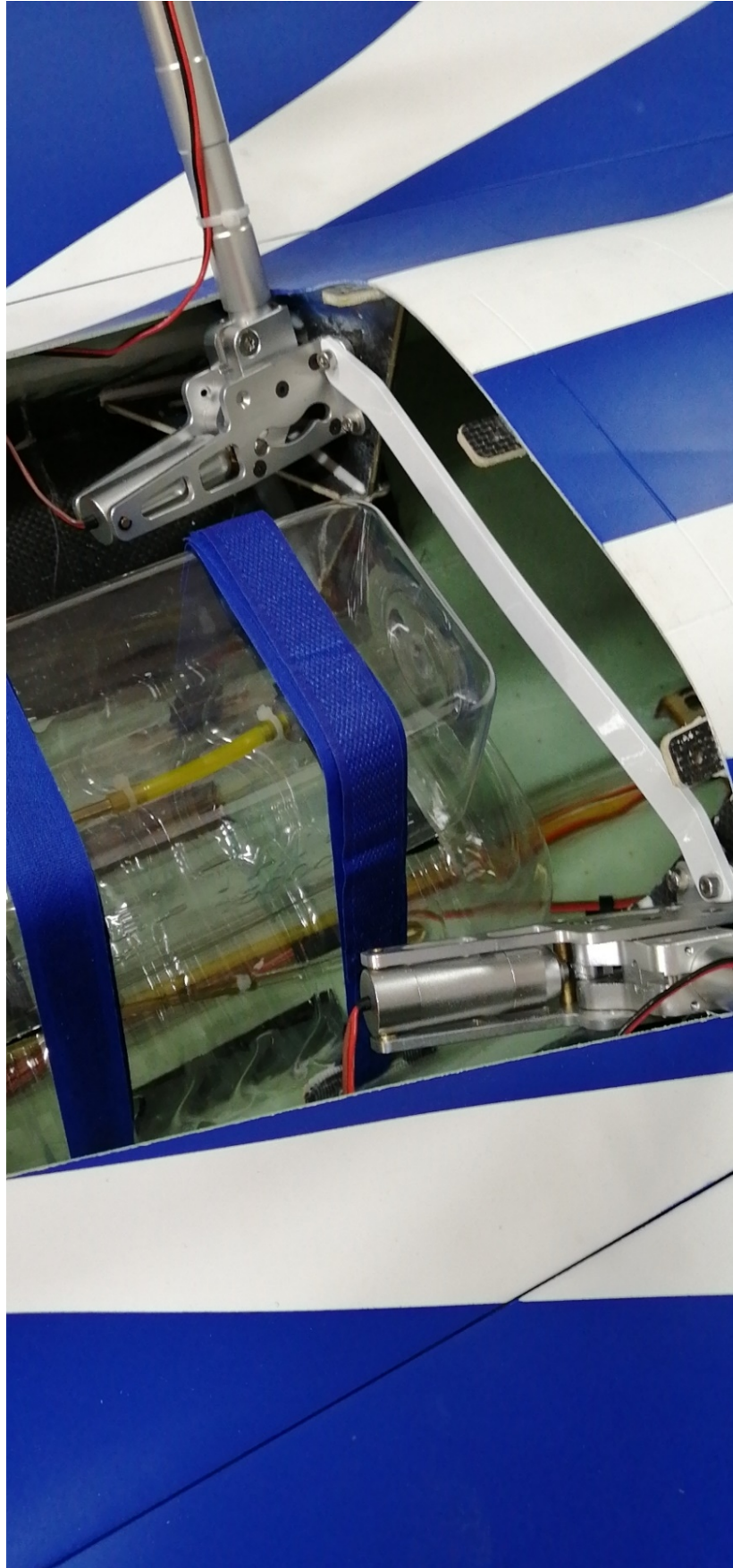
4: Before you drilling the mounting screws hole , please make sure there is nothing to get stuck when it open and close.





## Landing gear assembly - main

1. Use M4 \*14 screw to lock on the reserved space, and use special fixed aluminum sheet to connect left and right for reinforcement.



## Landing gear assembly - main

2. Check the main landing gear for interference.





## Wing Servo Assembly

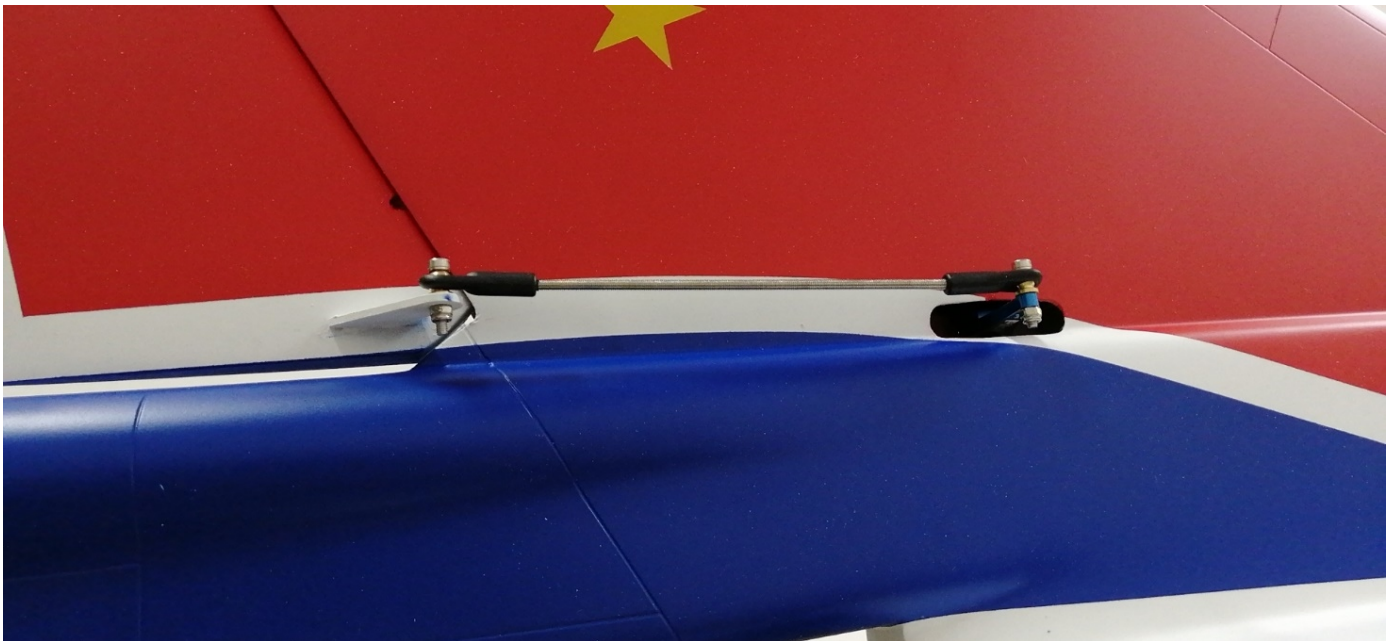
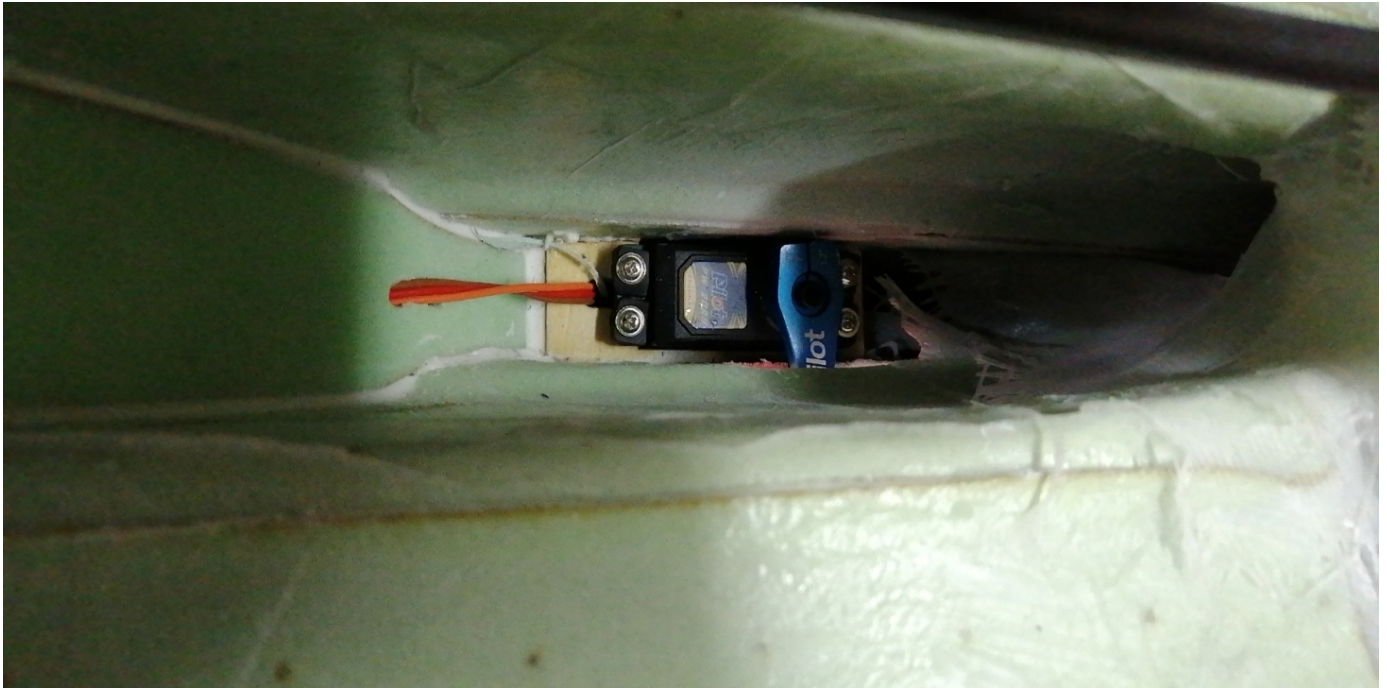
The control horns are pre-installed at the factory, ready for use..screw the servo to the servo plate then install the servo arm on to the servo, making sure that this is centred





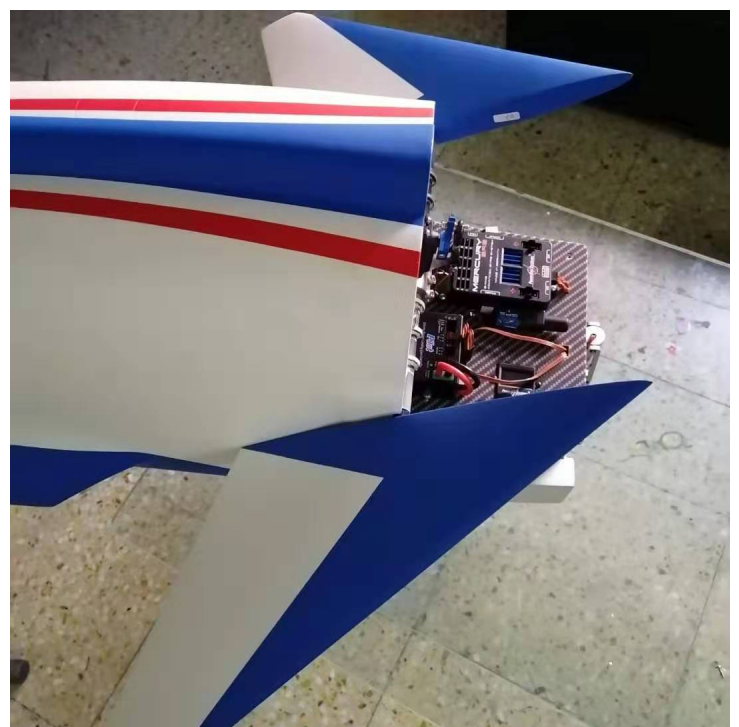
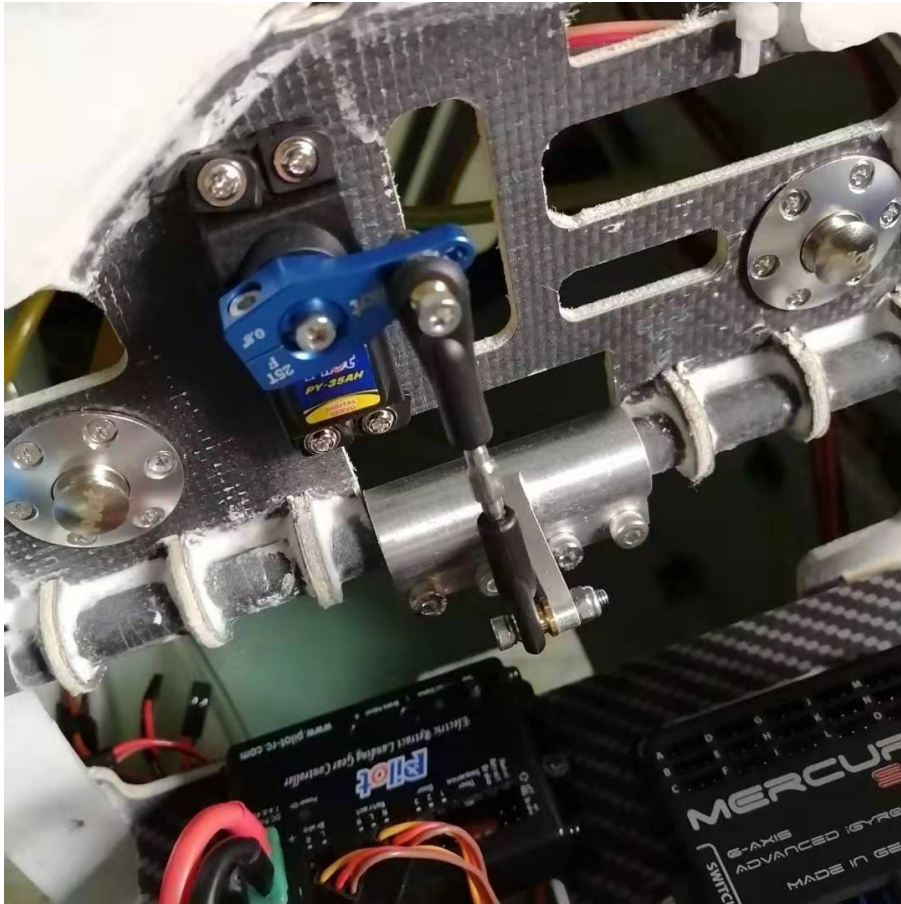
## Rudder Servo Assembly

1. Insert the servo into the precut servo mount. screw the servo in place, and then install the servo arm on to the servo, making sure that this is centred.



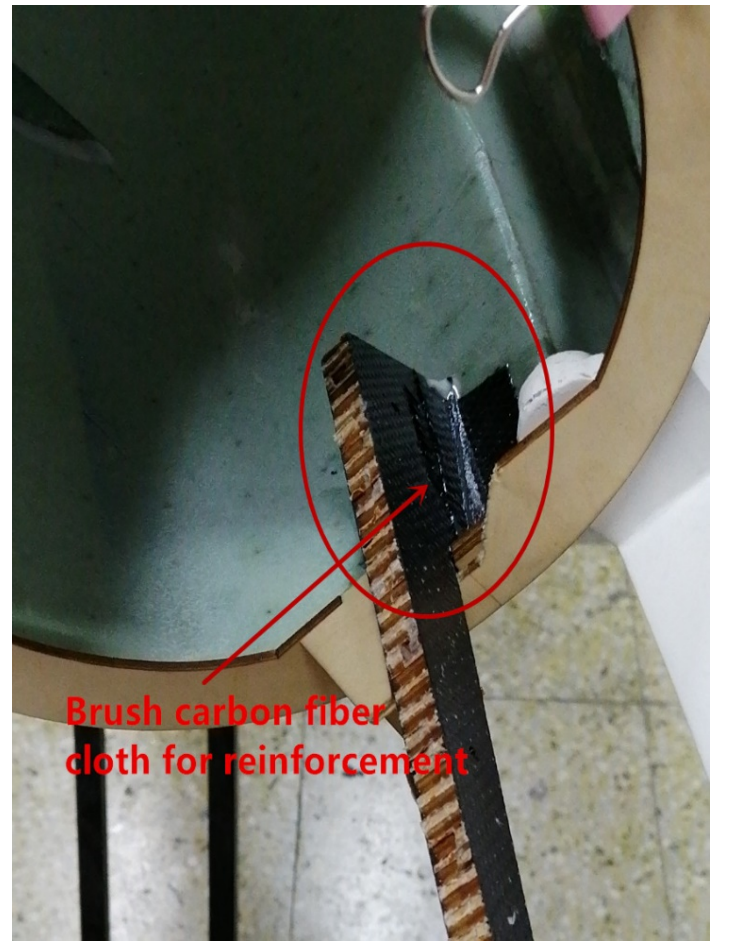
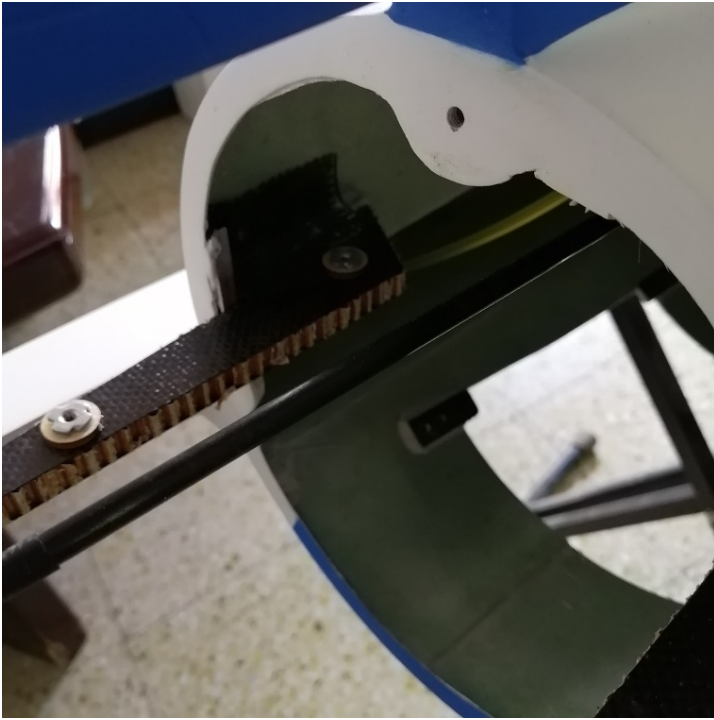
## Elevator Servo Assembly

2.Next is the elevators. as follows, the servo is fixed. put in the servo to the precut slot in the elevator. .screw the servo in place, and then install the servo arm on to the servo, making sure that this is centred.





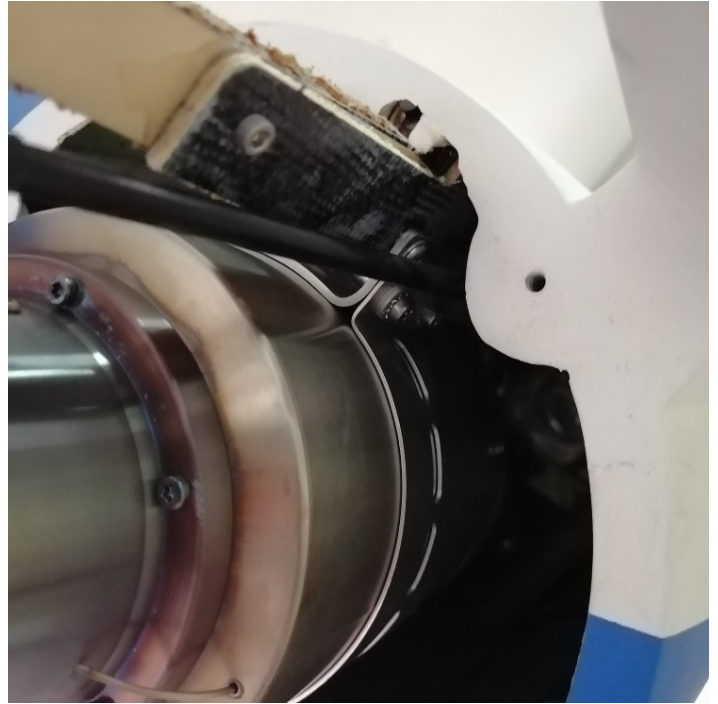
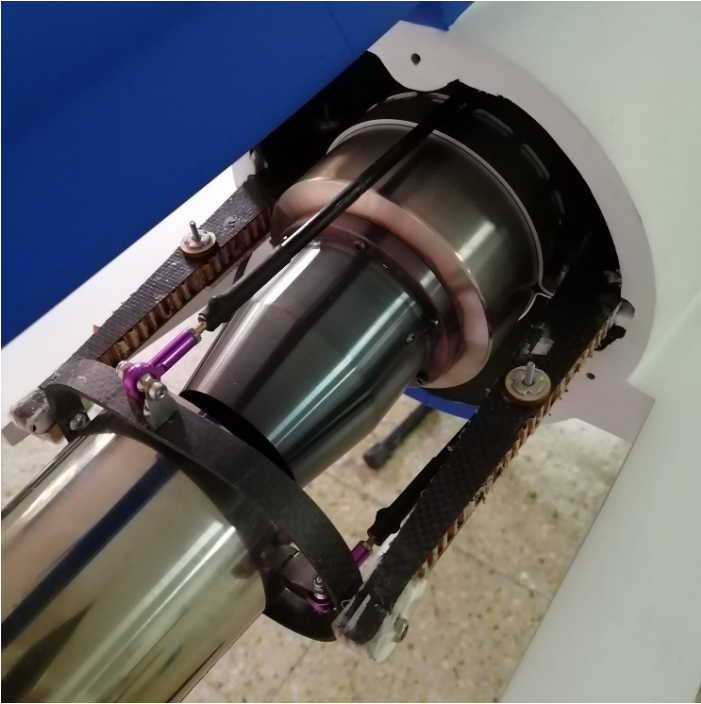
## Installation of Vector Nozzle



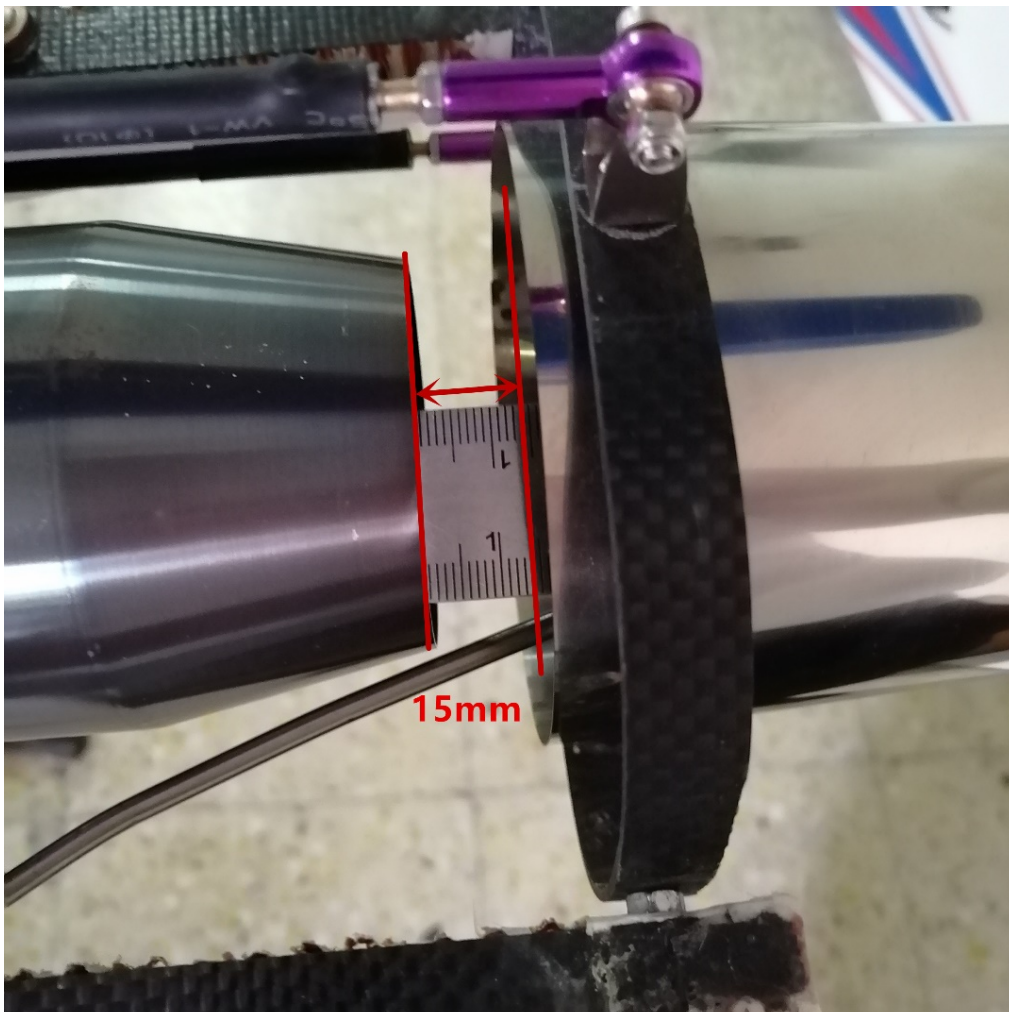


## *Distance of vector rotation*

Installation of engine and vector is completed.

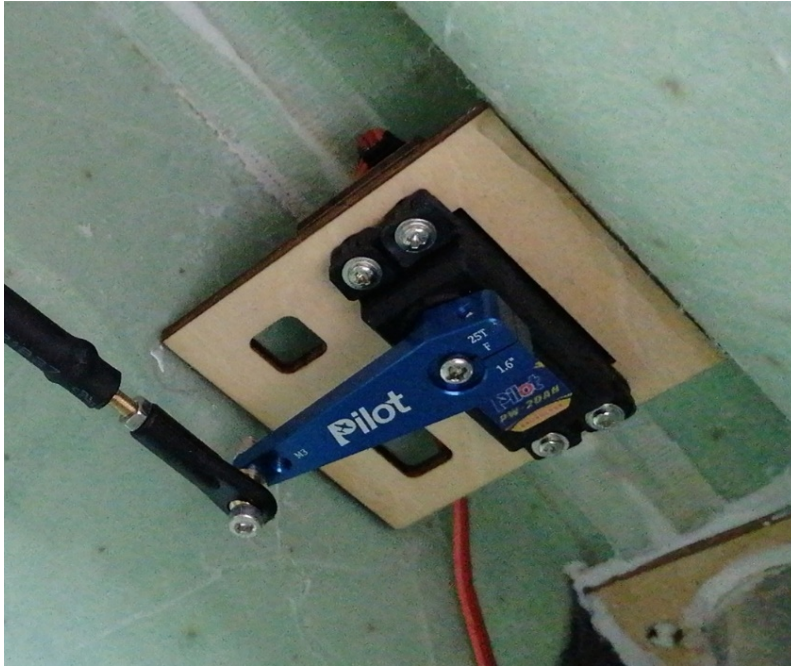


Distance between Rear End of Engine and Vector Leading Edge  
15mm

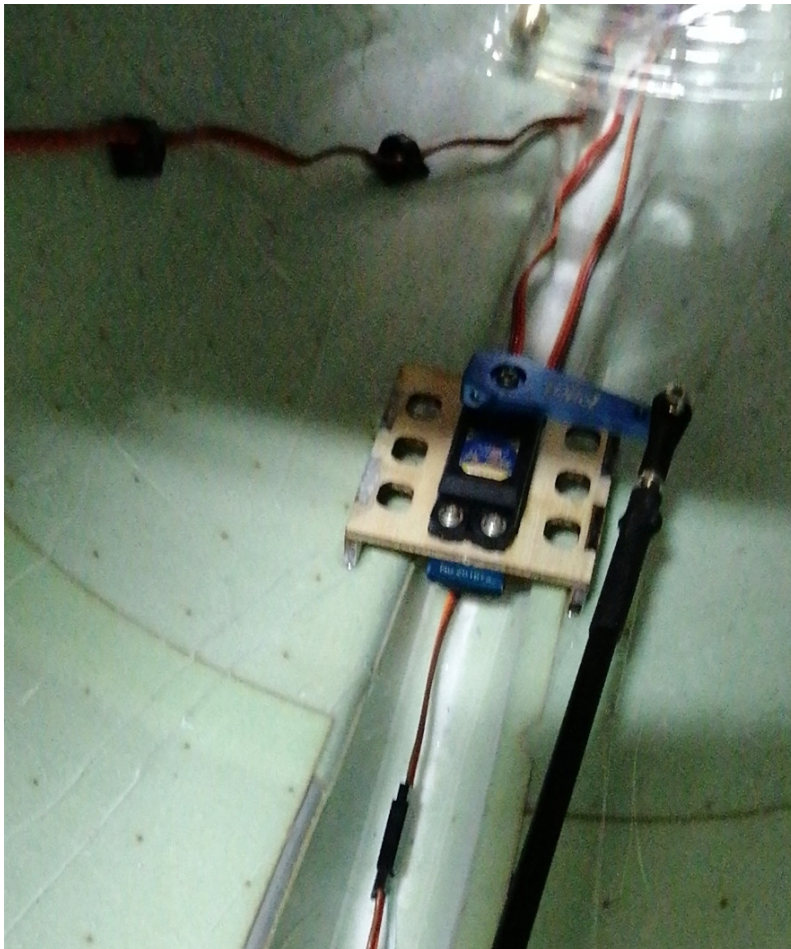


## Installation of Vector Nozzle

### 1. Fixing Vector Servo Machines and Fixing Servo Machine Lines



X-axis servo fixed



Y-axis servo fixed



## Tank Arrangement

The 106" J10 use PilotRC 5000ml oil tank.



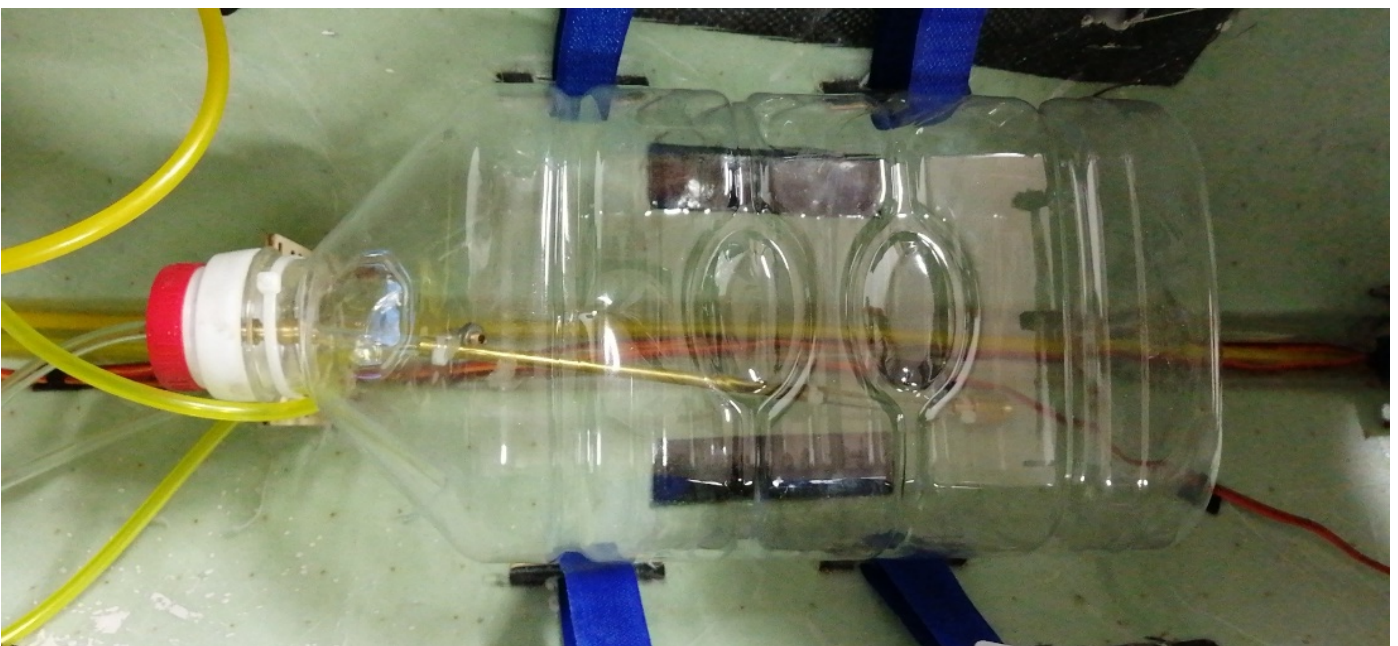
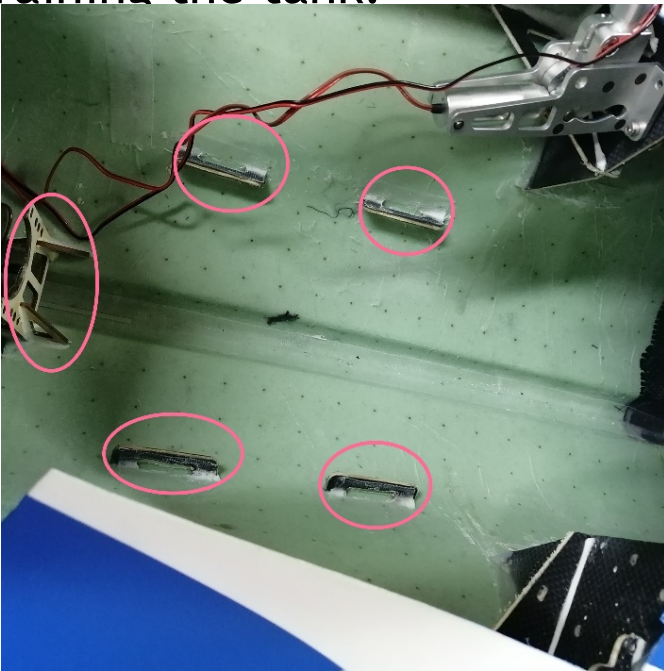
Anti-bubble oiltank:250ml



# Installation of main oil tank and Smoke tank

## 1. Fixing of Main Oil Tank

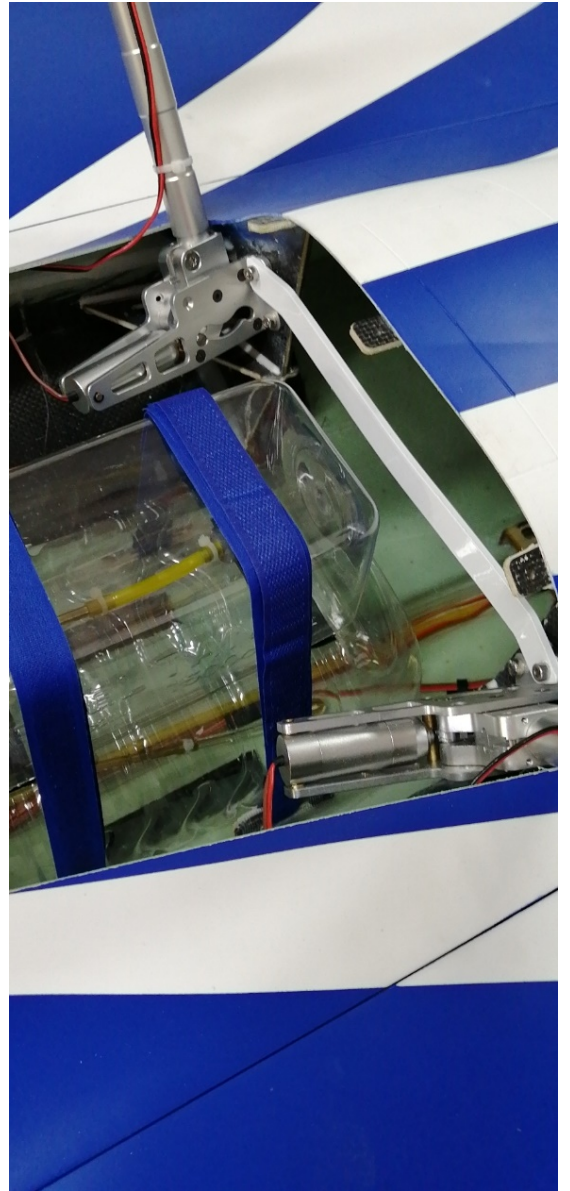
To arrange the fuel tank, connect all the oil tube (or you can connect it later), and stick the Velcro stick on the tank support frame. Also, you need stick the Velcro stick on the fuel tank, to arrange the tank on the support frame, use Velcro stick tape to straining the tank.





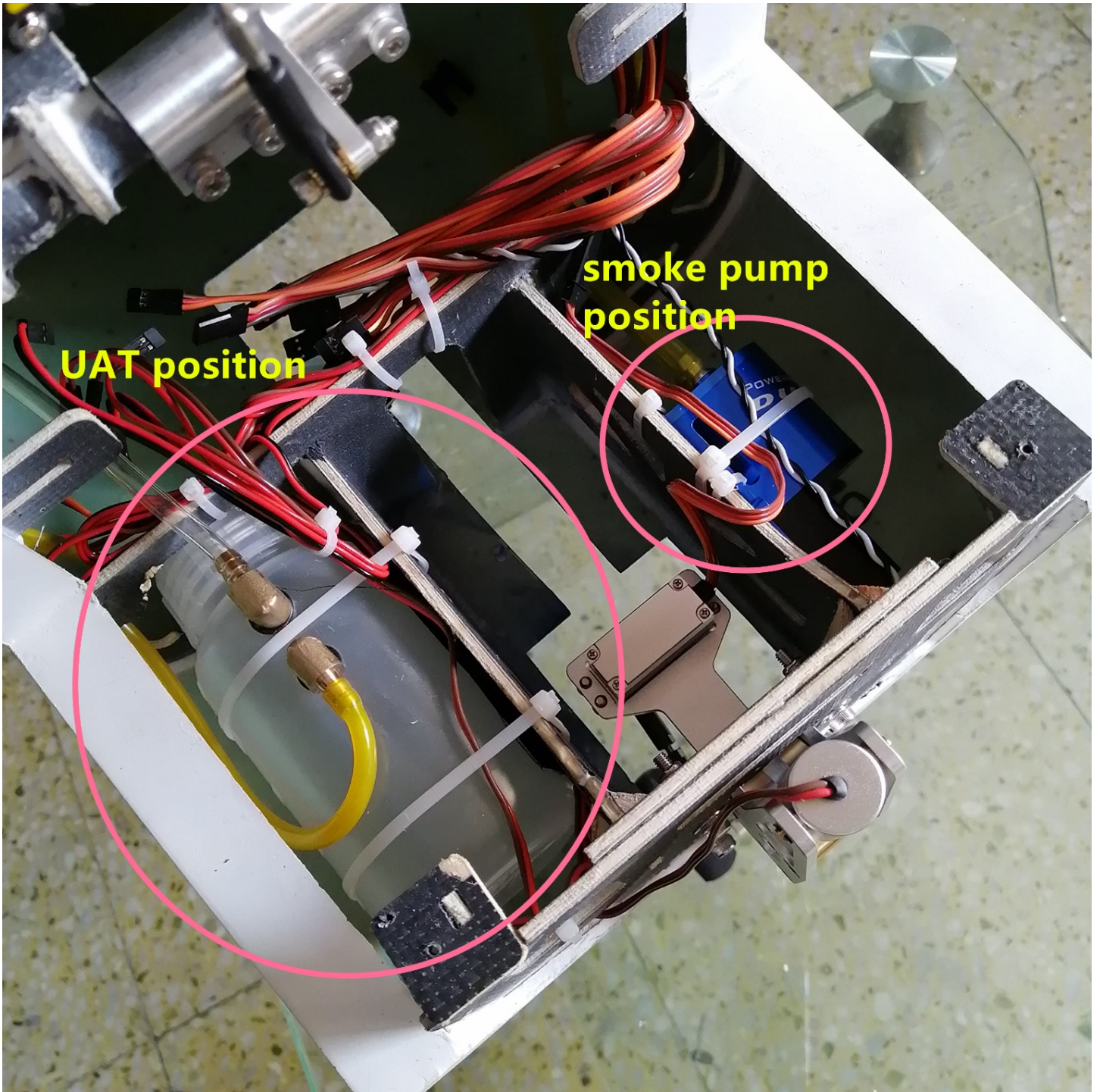
# Installation of main oil tank and Smoke tank

## 2. Fixing of Smoke Pull Oil Tank





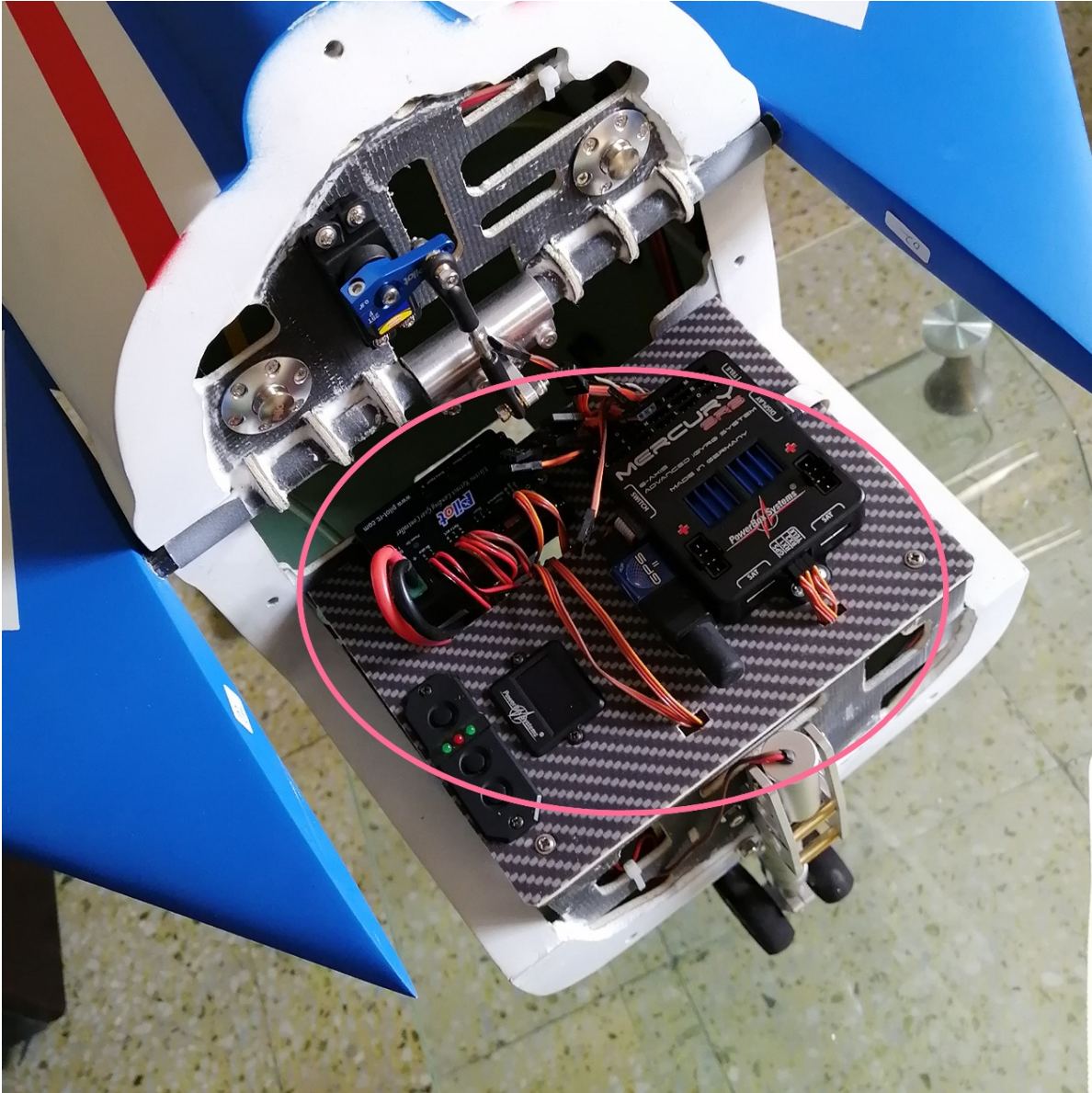
*Installation position of UAT and smoke pump*





## Installation of each controller

On top of the nose gear.



## Flying Setting

### 1. Setting of Rudder Surface in 3D Flight

**Aileron:** 40mm

**Rudder:** 30mm

**Elevator:** 36mm

**Vector setting:** X axis

28.5mm

Y axis

20mm

### 2. Setting of Control Surface in Airline Flight

**Aileron:** 21mm

**Rudder:** 22mm

**Elevator:** 21mm

**Vector setting:** X axis 19mm

Y axis 9mm

**CG:** The CG is 320mm from the front leading edge on the root of the wing.



## ***Flight Preparation***

- Make sure you have the right model programmed into your transmitter
- Check the direction of each surface not and also right before you take off .
- Remember nothing wrong on the ground ever improves in the air
- Check the air plane with the engine running and do a range check with your body between you and the plane at least 150 feet.
- Check your battery voltage after each flight, in case one servo is draining your battery
- Recheck all screws ,horns and linkages for slop after your maiden flight and check for damage if you made a bad landing you first time
- Have an experienced pilot fly it for you the first time if you have any doubts in your mind about the maiden flight
- Take a break after you first flight and let the adrenaline burned off by bragging to your fellow members how good it flies
- Fly low and at a medium speed on your first few flight
- Listen to your engine run and have an observer with you to remember what you talked about during the flight or if you get into trouble . Always balance your props, vibration is a killer.
- Remember nose heavy airplanes fly all the time, tail heavy airplanes fly only once. Be on the CG!
- Flying two mistakes: high in the beginning and not close to people, planes or runways. Being a center of the runway hog does not endear you to many modelers.

## ***Double Check***

Double check that all screws are installed, all components tightly secured, batteries and or fuel tank are full, all surfaces are working in the correct directions, balance is correct and range test passed before performing your maiden flight.

**WE WISH YOU A SUCCESSFUL MAIDEN AND MANY HAPPY FLIGHTS WITH  
YOUR NEW MODEL  
Tony Tan, Pilot-RC**



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